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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ramnarayan *et al.*

Serial No.: 09/704,362

Confirmation No.: 4748

Filed: November 1, 2000

For: **USE OF COMPUTATIONALLY DERIVED
PROTEIN STRUCTURES OF GENETIC
POLYMORPHISMS IN
PHARMACOGENOMICS FOR DRUG
DESIGN AND CLINICAL APPLICATIONS**

Art Unit: 1631

Examiner: Brusca, J.

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Commissioner for Patents
U.S. Patent and Trademark Office
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Sir:

Transmitted herewith are an Amendment and Response responsive to the Office Action mailed August 13, 2002, a Supplemental Information Disclosure Statement (SIDS); Form PTO-1449 (1 page), cited references, and a check for \$645 for a three-month extension of time (\$465) by small entity and the SIDS filing fee (\$180) for filing in connection with the above-identified application. If a Petition for extension of time is needed, this paper is to be considered such Petition.



The Commissioner is hereby authorized to charge this fee and any fees, including the fee for the extension of time, if the above noted amount is incorrect, that may be due in connection with this and the attached papers or with this application during its entire pendency to Deposit Account No. 50-1213 (or Deposit Account No. 08-1641). A duplicate of this sheet is enclosed.

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Respectfully submitted,
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ATTACHMENTS TO AMENDMENT RESPONSIVE TO OFFICE ACTION

The following attachments are provided:

(1) A Supplemental Information Disclosure Statement and Form PTO-1449
(1 page) making of record art cited in the Response; and

(2) Copies of the following documents

Osguthorpe, "Improved *Ab Initio* Predictions with a Simplified, Flexible
Geometry Model," *Proteins: Structure, Function, and Genetics Suppl 3*
(November 9, 1999) 186-193;

Westhead and Thornton "Protein structure prediction," *Curr Opin in
Biotechnology* (1998) 9:383-389, ;

Eisenhaber *et al.* "Protein structure prediction: recognition of primary,
secondary, and tertiary structural features from amino acid sequence," *Critical
Rev. in Biochem and Mol. Biol.* (1995) 30:1-94;

Jones, "Successful *ab initio* prediction of the tertiary structure of NK-
Lysin using multiple sequences and recognized supersecondary structural
motifs," *Proteins: Structure, function, and Genetics, Suppl 1* (1997) 185-191;

U.S.S.N. 09/704,362
RAMNARAYAN *ET AL.*
ATTACHMENTS TO AMENDMENT

Samudrala *et al.*, "Ab initio protein structure prediction using a combined hierarchical approach," Proteins: Structure, function, and Genetics Suppl 3 (1999) 194-198;

Dunbrack *et al.* "Meeting review: the Second Meeting on the Critical Assessment of Techniques for Protein Structure Prediction (CASP2), Asilomar, California, December 13-16, 1996," Folding and Design (1997) R27-R42; and

de Dios *et al.* "Secondary and Tertiary Structural Effects on Protein NMR Chemical Shifts: An ab Initio Approach," Science (1993) 260:1491-1496.

U.S. Patent No. 5,736,509 (April 7, 1998)